

Bottom Hole Long. = 81°58' 24.3"

Longitude = 81°58' 21.18"

4,085'

43 035675

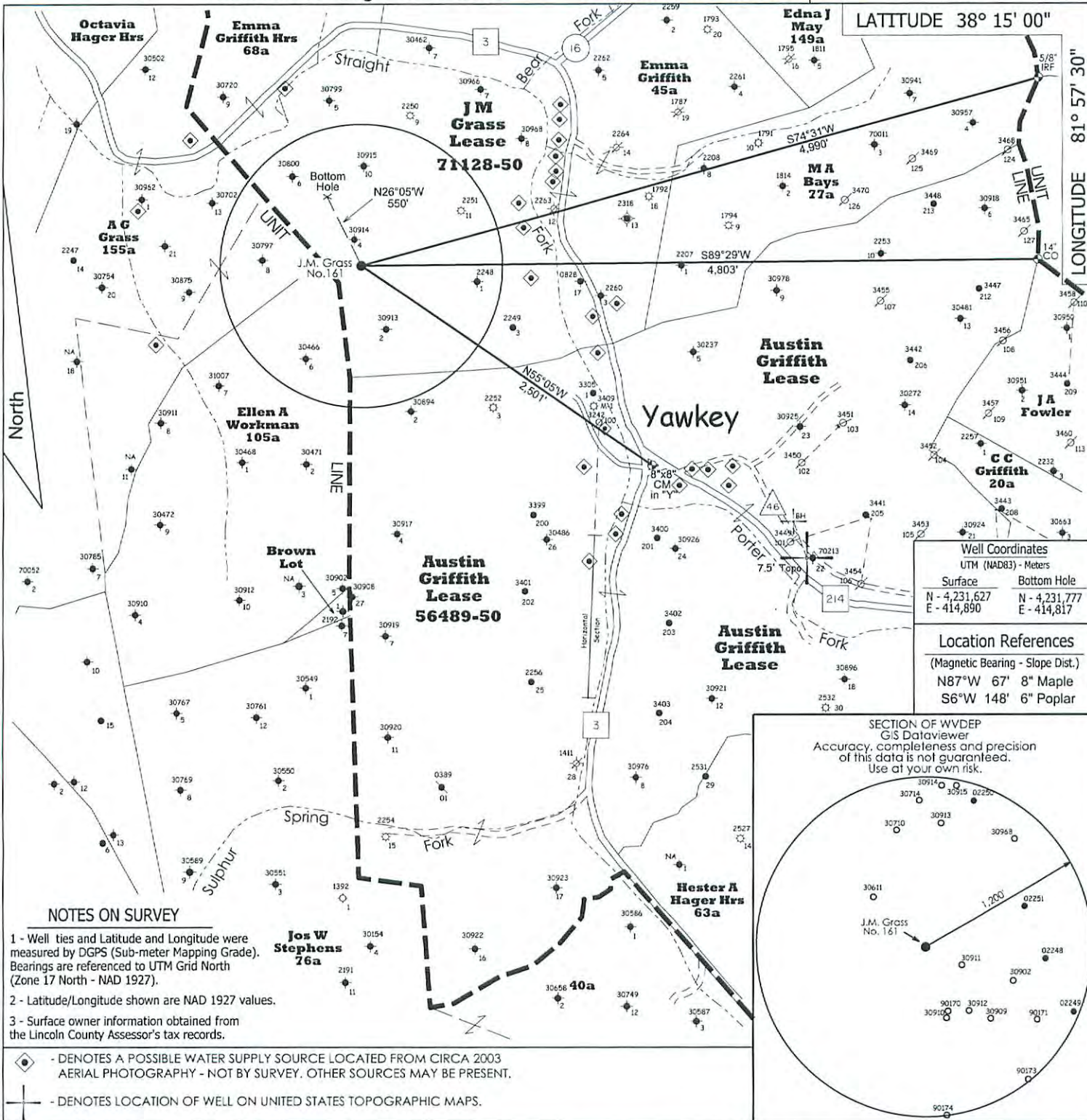
LATITUDE 38° 15' 00"

LONGITUDE 81° 57' 30"

7,825'

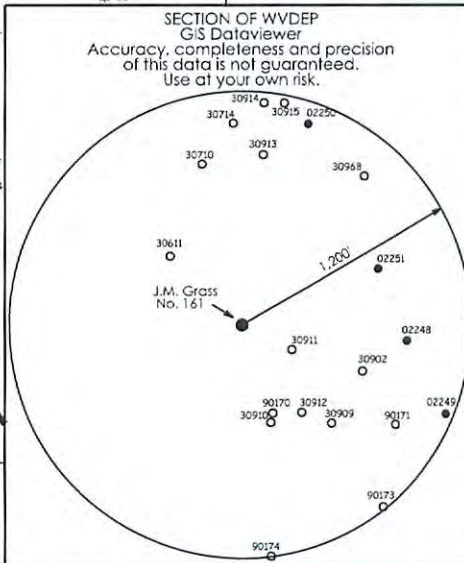
Latitude = 38° 13' 42.63"

Bottom Hole Lat. = 38° 13' 47.5"



Well Coordinates	
UTM (NAD83) - Meters	
Surface	Bottom Hole
N - 4,231,627	N - 4,231,777
E - 414,890	E - 414,817

Location References	
(Magnetic Bearing - Slope Dist.)	
N87°W 67'	8" Maple
S6°W 148'	6" Poplar



- NOTES ON SURVEY**
- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
 - 2 - Latitude/Longitude shown are NAD 1927 values.
 - 3 - Surface owner information obtained from the Lincoln County Assessor's tax records.
- ◆ - DENOTES A POSSIBLE WATER SUPPLY SOURCE LOCATED FROM CIRCA 2003 AERIAL PHOTOGRAPHY - NOT BY SURVEY. OTHER SOURCES MAY BE PRESENT.
 - ⊕ - DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

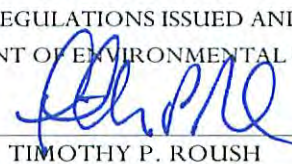
FILE NO. 1168

SCALE 1" = 1000'

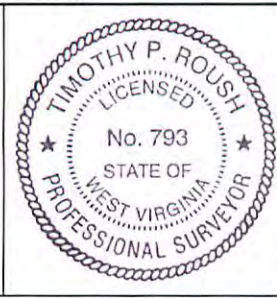
MINIMUM DEGREE OF ACCURACY Sub-Meter

PROVEN SOURCE OF ELEVATION DGPS Survey (Sub-Meter Mapping Grade)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) 

TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
Division of Environmental Protection
Office of Oil and Gas
601 57th Street
Charleston, West Virginia 25301

DATE February 9, 2016

FARM J.M. Grass No.161

APL WELL NO. 47 043 - 035675

RECEIVED MAR 09 2016
Office of Oil and Gas

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 984' WATERSHED Straight Fork DISTRICT Duval COUNTY Lincoln QUADRANGLE Griffithville 7.5'

SURFACE OWNER Kenneth Egnor, Sr. ACREAGE 32.75 Ac.

OIL & GAS ROYALTY OWNER HG Energy, LLC., et al LEASE ACREAGE 100 Ac. LEASE NO. 71128-50

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION Berea ESTIMATED DEPTH 3,155' MD

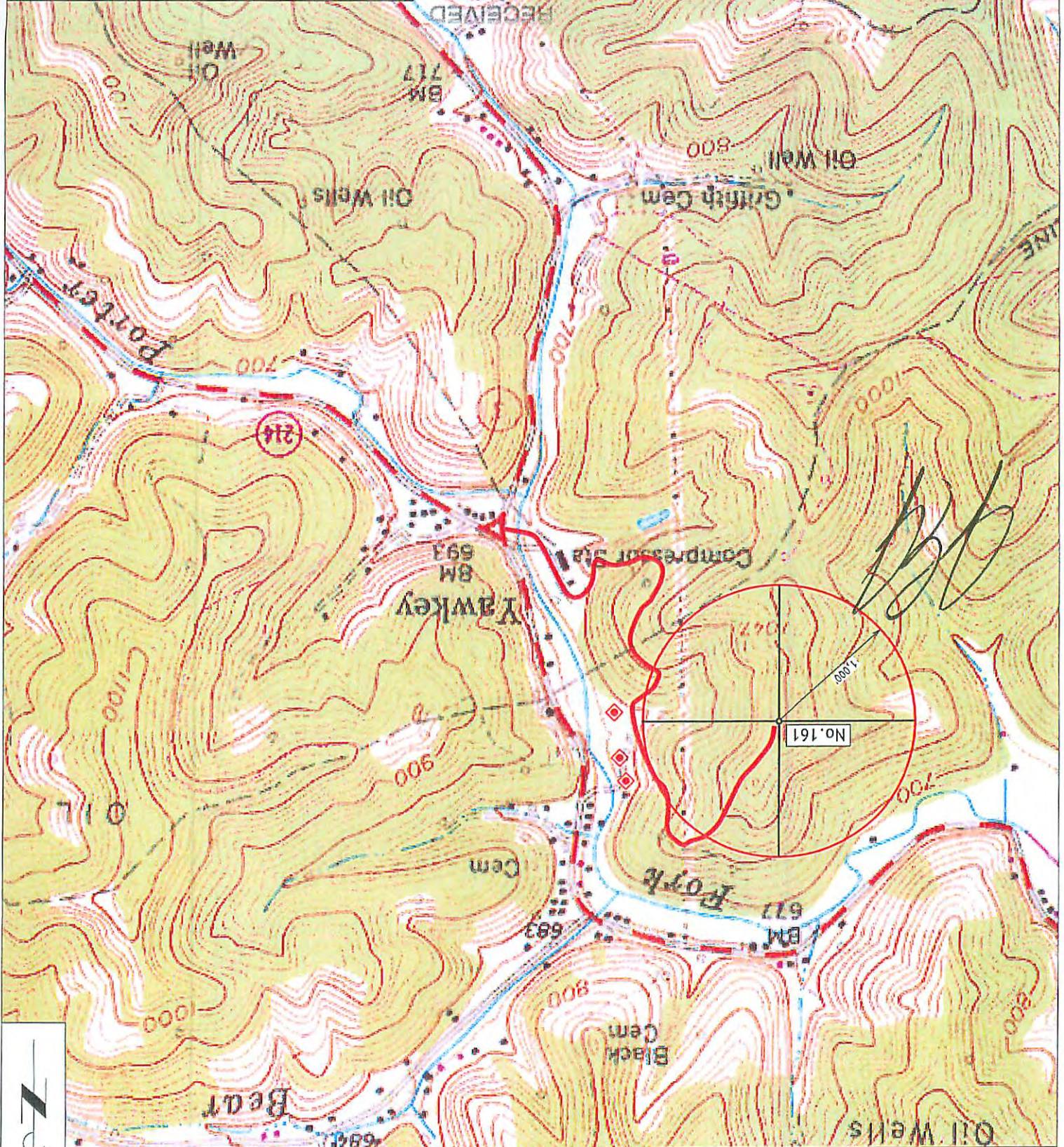
WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White
ADDRESS 5260 DuPont Road Parkersburg, WV 26101 ADDRESS 5260 DuPont Road Parkersburg, WV 26101

FORM IV-6

43035675

9/20/10/4

SUBJECT WELL
J.M. Grass No.161



NOTE:
No Known Water Supply
Sources are Located Within
1000' of Proposed Well

SCALE 1"=1000'

Griffithville 7.5' Quadrangle

Section of

Office of Oil and Gas

RECEIVED

MAR 09 2016

Oil Wells

WV Department of

Environmental Protection